SAMSUNG

MICROWAVE OVEN

Owner's Instructions

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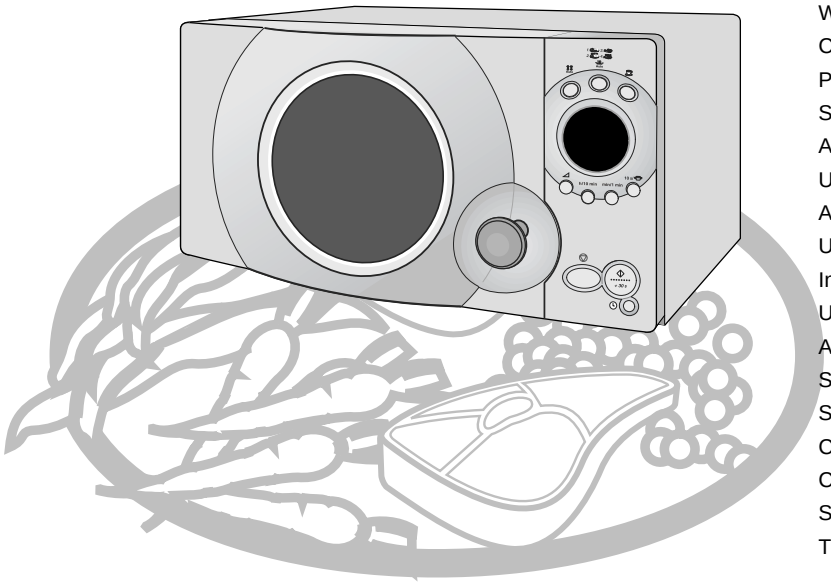

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Code No.: DE68-02181C

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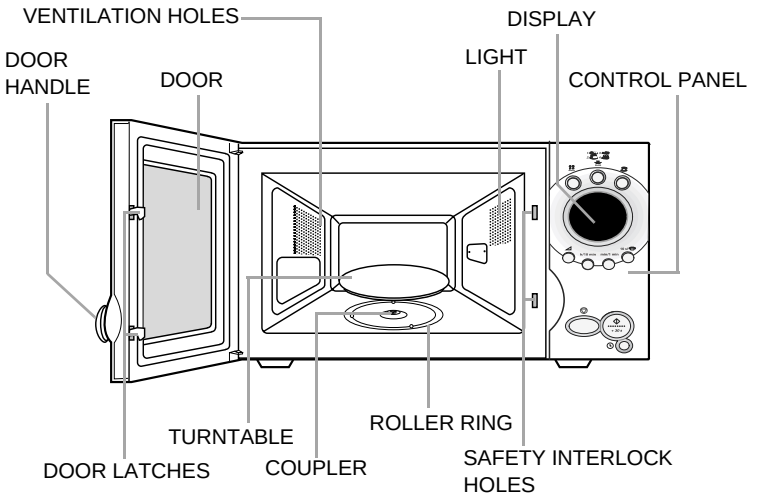
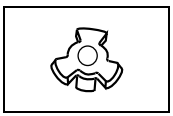
Oven

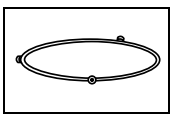


Accessories

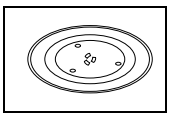
Depending on the model that you have purchased, you are supplied with several accessories that can be used in a variety of ways.



1. **Coupler**, already placed over the motor shaft in the base of the oven.
   Purpose The coupler rotates the turntable.



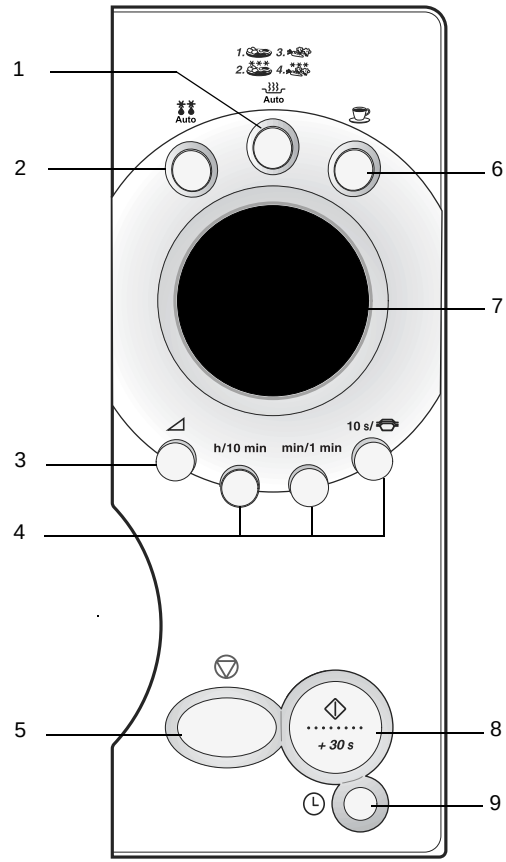
2. **Roller ring**, to be placed in the centre of the oven.
   Purpose The roller ring supports the turntable.



3. **Turntable**, to be placed on the roller ring with the centre fitting to the coupler.
   Purpose The turntable serves as the main cooking surface; it can be easily removed for cleaning.

☛ **DO NOT** operate the microwave oven without the roller ring and turntable.

Control Panel



1. AUTO REHEAT/COOK SELECTION
2. AUTO DEFROST FEATURE
3. POWER LEVEL SETTING
4. TIME SETTING
5. STOP/CANCEL BUTTON
6. INSTANT REHEAT BUTTON
7. DISPLAY
8. START BUTTON
9. CLOCK SETTING

Using this Instruction Booklet

You have just purchased a SAMSUNG microwave oven. Your Owner's Instructions contain much valuable information on cooking with your microwave oven:

- ***Safety precautions***
- ***Suitable accessories and cookware***
- ***Useful cooking tips***

At the front of the booklet you will find illustrations of the oven, and more importantly the control panel, so that you can find the buttons more easily.

The step-by-step procedures use two different symbols.

Important

Note

PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

Failure to observe the following safety precautions may result in harmful exposure to microwave energy.

(a) Under no circumstances should any attempt be made to operate the oven with the door open or to tamper with the safety interlocks (door latches) or to insert anything into the safety interlock holes.

(b) Do not place any object between the oven door and front face or allow food or cleaner residues to accumulate on sealing surfaces. Ensure that the door and door sealing surfaces are kept clean by wiping after use first with a damp cloth and then with a soft dry cloth.

(c) Do not operate the oven if it is damaged until it has been repaired by a qualified microwave service technician trained by the manufacturer.
It is particularly important that the oven door closes properly and that there is no damage to the:
(1) Door, door seals and sealing surfaces
(2) Door hinges (broken or loose)
(3) Power cable

(d) The oven should not be adjusted or repaired by anyone other than a properly qualified microwave service technician trained by the manufacturer.

Safety Precautions

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Important Safety Instructions.

Read Carefully and keep for future reference.

Before cooking food or liquids in your microwave oven, please check that the following safety precautions are taken.

1. **DO NOT** use any metallic cookware in the microwave oven:
   - Metallic containers
   - Dinnerware with gold or silver trimmings
   - Skewers, forks, etc.

   Reason: Electric arcing or sparking may occur and may damage the oven.
2. **DO NOT** heat:
   - Airtight or vacuum-sealed bottles, jars, containers
     Ex) Baby food jars
   - Airtight food.
     Ex) Eggs, nuts in shells, tomatoes

   Reason: The increase in pressure may cause them to explode.
   Tip: Remove lids and pierce skins, bags, etc.
3. **DO NOT** operate the microwave oven when it is empty.
   Reason: The oven walls may be damaged.
   Tip: Leave a glass of water inside the oven at all times. The water will absorb the microwaves if you accidentally set the oven going when it is empty.
4. **DO NOT** cover the rear ventilation slots with cloths or paper.
   Reason: The cloths or paper may catch fire as hot air is evacuated from the oven.
5. **ALWAYS** use oven gloves when removing a dish from the oven.
   Reason: Some dishes absorb microwaves and heat is always transferred from the food to the dish. The dishes are therefore hot.
6. **DO NOT** touch heating elements or interior oven walls.
   Reason: These walls may be hot enough to burn even after cooking has finished, even though they do not appear to be so. Do not allow inflammable materials to come into contact with any interior area of the oven. Let the oven cool down first.
7. To reduce the risk of fire in the oven cavity:
   - Do not store flammable materials in the oven
   - Remove wire twist ties from paper or plastic bags
   - Do not use your microwave oven to dry newspapers
   - If smoke is observed, keep the oven door closed and switch off or disconnect the oven from the power supply.
8. Take particular care when heating liquids and baby foods.
   - ALWAYS allow a standing time of at least 20 seconds after the oven has been switched off so that the temperature can equalize.
   - Stir during heating, if necessary, and ALWAYS stir after heating.
   - Take care when handling the container after heating. You may burn yourself if the container is too hot.

Safety Precautions (continued)

- A risk of delayed eruptive boiling exists.
- To prevent delayed boiling and possible scalding, you should put a plastic spoon or glass stick into the beverages and stir before, during and after heating.
  Reason: During the heating of liquids the boiling point can be delayed; this means that eruptive boiling can start after the container is removed from the oven. You may scald yourself.
- In the event of scalding, follow these FIRST AID instructions:
  * Immerse the scalded area in cold water for at least 10 minutes.
  * Cover with a clean, dry dressing.
  * Do not apply any creams, oils or lotions.
- **NEVER** fill the container to the top and choose a container that is wider at the top than at the bottom to prevent the liquid from boiling over. Bottles with narrow necks may also explode if overheated.
- **ALWAYS** check the temperature of baby food or milk before giving it to the baby.
- **NEVER** heat a baby's bottle with the teat on, as the bottle may explode if overheated.

9. Be careful not to damage the power cable.
- Do not immerse the power cable or plug in water and keep the power cable away from heated surfaces.
- Do not operate this appliance if it has a damaged power cable or plug.

10. Stand at arm's length from the oven when opening the door.
Reason: The hot air or steam released may cause scalding.

11. Keep the inside of the oven clean.
Reason: Food particles or spattered oils stuck to oven walls or floor can cause paint damage and reduce the efficiency of the oven.

12. You may notice a "Clicking" sound during operation(especially when the oven is defrosting).
Reason: This sound is normal when the electrical power output is changing.

13. When the microwave oven is operating without any load, the power will be cut off automatically for safety. You can operate normally after letting it stand for over 30 minutes.

IMPORTANT SAFETY INSTRUCTIONS

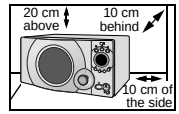
During cooking, you should look into the oven from time to time when food is being heated or cooked in disposable containers of plastic, paper or other combustible materials.

IMPORTANT

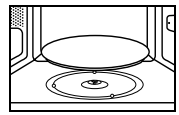
Young children should **NEVER** be allowed to use or play with the microwave oven. Nor should they be left unattended near the microwave oven when it is in use. Items of interest to children should not be stored or hidden just above the oven.

Installing Your Microwave oven

Place the oven on a flat, level surface that strong enough to safely bear the weight of the oven.



1. When you install your oven, Make sure there is adequate ventilation for your oven by leaving at least 10 cm (4 inches) of space behind, and on the sides of the oven, at least 20 cm (8 inches) of space above the oven.



2. Remove all packing materials inside the oven.
Install the roller ring and turntable.
Check that the turntable rotates freely.

3. This microwave oven has to be positioned so that plug is accessible.

☞ **Never** block the air vents as the oven may overheat and automatically switch itself off. It will remain inoperable until it has cooled sufficiently.

☞ For your personal safety, plug the cable into a 3-pin, 230 Volt, 50Hz, AC earthed socket. If the power cable of this appliance is damaged, it must be replaced by a special cable (I-SHENG SP022, KDK KKP4819D, EUROELECTRIC 3410, SAMIL SP-106B, HIGH PROJECT H.P 3, MOONSUNG EP-48E). Contact your local dealer to have it replaced. The power cable of ISRAEL is PENCON(ZD16A), S/AFRICA APEX LEADS SA16 and NIGERIA, GHANA, KENYA and U.A.E is PENCON(UD13A1).

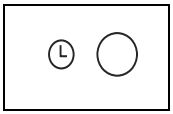
☞ **Do not** install the microwave oven in hot or damp surroundings like next to a traditional oven or radiator. The power supply specifications of the oven must be respected and any extension cable used must be of the same standard as the power cable supplied with the oven. Wipe the interior and the door seal with a damp cloth before using your microwave oven for the first time.

Setting the Time

Your microwave oven has an inbuilt clock. The time can be displayed in either the 24-hour or 12-hour notation. You must set the clock:

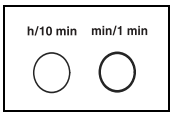
- ***When you first install your microwave oven***
- ***After a power failure***

✉ Do not forget to reset the clock when you switch to and from summer and winter time.

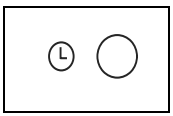


1. To display the time in the...Then press the ◷ button...

24-hour notation	Once
12-hour notation	Twice



2. Set the hour with the **h** button and the minutes with the **min** button.



3. When the right time is displayed, press the ◷ button again to start the clock.

Result : The time is displayed whenever you are not using the microwave oven

What to Do if You are in Doubt or Have a Problem

If you have any of the problems listed below try the solutions given.

◆ This is normal.
- Condensation inside the oven
- Air flow around the door and outer casing
- Light reflection around the door and outer casing
- Steam escaping from around the door or vents

◆ The oven does not start when you press the ◇ button.
- Is the door completely closed?

◆ The food is not cooked at all
- Have you set the timer correctly and/or pressed the ◇ button?
- Is the door closed?
- Have you overloaded the electric circuit and caused a fuse to blow or a breaker to be triggered?

◆ The food is either overcooked or undercooked
- Was the appropriate cooking length set for the type of food?
- Was an appropriate power level chosen?

◆ Sparking and cracking occur inside the oven (arcing)
- Have you used a dish with metal trimmings?
- Have you left a fork or other metal utensil inside the oven?
- Is aluminium foil too close to the inside walls?

◆ The oven causes interference with radios or televisions
- Slight interference may be observed on televisions or radios when the oven is operating. This is normal.To solve this problem, install the oven away from televisions, radios and aerials.
- If interference is detected by the oven's microprocessor, the display may be reset. To solve this problem, disconnect the power plug and reconnect it. Reset the time.

✉ If the above guidelines do not enable you to solve the problem, contact your local dealer or SAMSUNG after-sales service.

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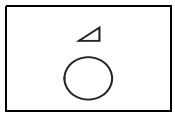
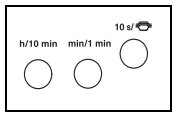
Cooking / Reheating

The following procedure explains how to cook or reheat food. ALWAYS check your cooking settings before leaving the oven unattended.

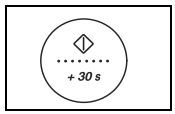
First, place the food in the centre of the turntable. Then, close the door.



1. Press the ⊿ button.
Result : The 850W (maximum cooking power) indications are displayed:
Select the appropriate power level by pressing the ⊿ button again until the corresponding wattage is displayed. Refer to the power level table.



2. Set the cooking time by pressing the **10min. 1min** and **10s** button.



3. Press the ◇ button.
Result : The oven light comes on and the turntable starts rotating.
Cooking starts and when it has finished the oven beeps four times.

☛ **Never** switch the microwave oven on when it is empty.

✉ If you wish to heat a dish for a short period of time at maximum power (850W), simply press the **+30s** button once for each 30 seconds of cooking time. The oven starts immediately.

Power Levels

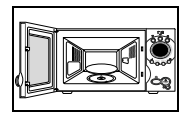
You can choose among the power levels below.

Power Level	Output
HIGH	850 W
MEDIUM HIGH	600 W
MEDIUM	450 W
MEDIUM LOW	300 W
DEFROST(❄)	180 W
LOW	100 W

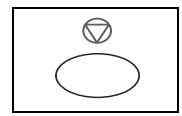
✉ If you select higher power level, the cooking time must be decreased. If you select lower power level, the cooking time must be increased.

Stopping the Cooking

You can stop cooking at any time to check the food.



1. To stop temporarily;
Open the door.
Result : Cooking stops. To resume cooking, close the door and press ◇ again.

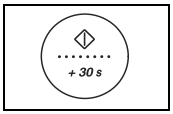


2. To stop Completely;
Press the ▽ button.
Result : The cooking stops.
If you wish to cancel the cooking settings, press the **Cancel**(▽) button.

☛ You can cancel any setting before starting cooking by simply pressing **Cancel** ▽ .

Adjusting the Cooking Time

You can increase the cooking time by pressing the +30s button once for each 30 seconds to be added.



Press the **+30s** button once for each 30 seconds to be added.

Using the Auto Reheat/Cook Feature

The Auto Reheat/Cook feature has four pre-programmed cooking times. You do not need to set either the cooking times or the power level. You can adjust the number of servings by pressing the 10s/ button.

First, place the food in the centre of the turntable and close the door.

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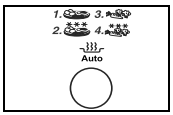
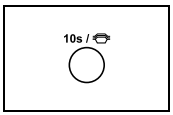
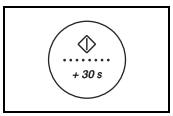


1. Select the type of food that you are cooking by pressing the **Auto Reheat/Cook**( ) button once or more times.



2. Select the size of the serving by pressing the **10s/** buttons. (Refer to the table.)



3. Press ◈ button.
Result : Cooking starts. When it has finished:
1) The oven beeps four times.
2) The end reminder signal will beep 3 times (once every minutes)
3) The current time is displayed again.

✉ Use only recipients that are microwave-safe.

Auto Reheat/Cook Settings

The following table presents the various Auto Reheat/Cook( ) Programmes, quantities, standing times and appropriate recommendations.

Button	Food	Serving Size	Standing Time	Recommendations
1.	**Ready Meal** (chilled)	300-350 g 400-450 g	3 min.	Put on a ceramic plate and cover with microwave cling film.This programme is suitable for meals consisting of 3 components (e.g. meat with sauce, vegetables and a side dishes like potatoes, rice or pasta).
2.	**Ready Meal** (frozen)	300 - 350 g 400 - 450 g	4 min.	Take frozen ready meal and check if dish is suitable for microwave. Pierce film of ready meal. Put the frozen ready meal in the centre. This programme is suitable for frozen ready meals consisting of 3 components (e.g. meat with sauce, vegetables and a side dish like potatoes, rice or pasta).
3.	**Fresh Vegetables**	100 - 150 g 200 - 250 g 300 - 350 g 400 - 450 g 500 - 550 g	3 min.	Weigh the vegetables after washing, cleaning and cutting into similar size. Put them into a glass bowl with lid. Add 30 ml (2 tablespoons) water when cooking for 100-250 g, add 45 ml (3-4 tablespoons) for 300-550 g. Stir after cooking
4.	**Frozen Vegetables**	100 - 150 g 200 - 250 g 300 - 350 g 400 - 450 g 500 - 550 g	3-4 min.	Weigh the frozen vegetables (-18°C) and put them in a suitable sized glass pyrex bowl with lid. When cooking 100-350 g add 15 ml (1 tablespoon) water for 400-450 g add 30 ml (2 tablespoons). Stir after cooking and during standing time. This programme is suitable for peas, sweet corn, broccoli, cauliflower and mixed vegetables such as peas, carrots and cauliflower.

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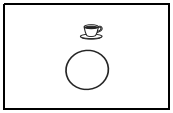
Using the Instant Reheat Feature

With the Instant Reheat feature, the cooking time is set automatically and you do not have to press the Start button. You can adjust the number of servings by pressing the appropriate Instant Reheat button the required number of times.

First, place the food in the centre of the turntable and close the door.



1. Press the **Instant Reheat**(☕) button which you want the required number of times.
Result : Cooking starts after about two seconds. When it has finished:
1) The oven beeps four times.
2) The end reminder signal will beep 3 times (once every minute)
3) The current time is displayed again.

Example: Press the **Instant Reheat**(☕) button one times to reheat one cups of coffee.
Refer to the table below.

✉ Use only recipients that are microwave-safe.

Instant Reheat Settings

The following table presents the standing time, quantitles, and appropriate recommendations for the Instant Reheat Programme.

Button	Food	Serving Size	Standing Time	Recommendations
☕	**Drinks** (coffee, milk, tea, water with room temperature)	150 ml (1 cup) 250 ml (1 mug)	1- 2 min.	Pour into a ceramic cup and reheat uncovered. Place cup(150 ml) or mug(250 ml) in the centre of turntable. Stir carefully before and after standing time.

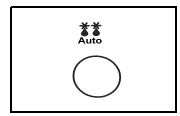
Using the Auto Defrost Feature

The Auto Defrost feature enables you to defrost meat, poultry or fish.

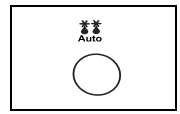
The defrost time and power level are set automatically.

✉ Use only dishes that are microwave-safe.

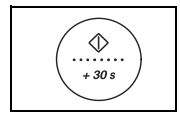
First, place the frozen food in the centre of the turntable and close the door.



1. Press the **Auto**(⁂) button.
Result : The following indication is displayed: 200



2. Select the food weight by pressing the **Auto**(⁂) button.
It is possible to set up to a maximum of 1500g.



3. Press ◈ button.
Result :
- Defrosting begins.
- The oven beeps halfway through defrosting to remind you to turn the food over.
- Press ◈ again to finish defrosting.

✉ You can also defrost food manually. To do so, select the microwave cooking/reheating function with a power level of 180W. Refer to the section entitled " Cooking/Reheating" on page 6 for further details.

Auto Defrost Settings

Remove all kinds of packaging material before defrosting.

Place the frozen foods on a turntable.

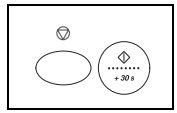
Turn the food over when the oven beeps.

Keep the corresponding standing time after Auto Defrosting has finished.

Food	Portion	Standing Time	Recommendation
Meat	200-1500g	20-60 min	Shield the edges with aluminium foil.
Poultry	200-1500g	20-60 min	Turn the food over when the oven
Fish	200-1500g	20-50 min	beeps.

Switching the Beeper Off

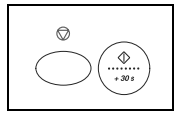
You can switch the beeper off whenever you want.



1. Press the ▽ and ◇ buttons at the same time.
Result :

- The following indication is displayed.

- The oven will not beep each time you press a button.



2. To switch the beeper back on, press the ▽ and ◇ buttons again at the same time.
Result :

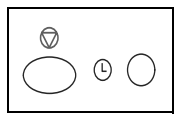
- The following indication is displayed.

- The oven operates with the beeper on again.

Safety-Locking Your Microwave Oven

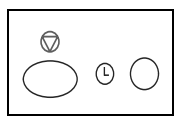
Your microwave oven is fitted with a special Child Safety programme, which enables the oven to be "locked" so that children or anyone unfamiliar with it cannot operate it accidentally.

The oven can be locked at any time.



1. Press the ▽ and 🕒 buttons at the same time.
Result :

- The oven is locked (no functions can be selected).
- The display shows "L".



2. To unlock the oven, press the ▽ and 🕒 buttons again at the same time.
Result : The oven can be used normally.

Cookware Guide

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To cook food in the microwave oven, the microwaves must be able to penetrate the food, without being reflected or absorbed by the dish used.

Care must therefore be taken when choosing the cookware. If the cookware is marked microwave-safe, you do not need to worry.

The following table lists various types of cookware and indicates whether and how they should be used in a microwave oven.

Cookware	Microwave-Safe	Comments
Aluminium foil	✓ ✗	Can be used in small quantities to protect areas against overcooking. Arcing can occur if the foil is too close to the oven wall or if too much foil is used.
Browning plate	✓	Do not preheat for more than eight minutes.
China and earthenware	✓	Porcelain, pottery, glazed earthenware and bone china are usually suitable, unless decorated with a metal trim.
Disposable polyester cardboard dishes	✓	Some frozen foods are packaged in these dishes.
Fast-food packaging		
• Polystyrene cups containers	✓	Can be used to warm food. Overheating may cause the polystyrene to melt.
• Paper bags or newspaper	✗	May catch fire.
• Recycled paper or metal trims Glassware	✗	May cause arcing.
Glassware		
• Oven-to-table ware	✓	Can be used, unless decorated with a metal trim.
• Fine glassware	✓	Can be used to warm foods or liquids. Delicate glass may break or crack if heated suddenly.
• Glass jars	✓	Must remove the lid. Suitable for warming only.
Metal		
• Dishes	✗	May cause arcing or fire.
• Freezer bag twist ties	✗	
Paper		
• Plates, cups, napkins and Kitchen paper3	✓	For short cooking times and warming. Also to absorb excess moisture.
• Recycled paper	✗	May cause arcing.
Plastic		
• Containers	✓	Particularly if heat-resistant thermoplastic. Some other plastics may warp or discolour at high temperatures. Do not use Melamine plastic.
• Cling film	✓	Can be used to retain moisture. Should not touch the food. Take care when removing the film as hot steam will escape.
• Freezer bags	✓ ✗	Only if boilable or oven-proof. Should not be airtight. Prick with a fork, if necessary.
Wax or grease-proof paper	✓	Can be used to retain moisture and prevent spattering.

✓ :Recommended
✓✗:Use Caution
✗ :Unsafe

Cleaning Your Microwave Oven

The following parts of your microwave oven should be cleaned regularly to prevent grease and food particles from building up:

- ***Inside and outside surfaces***
- ***Door and door seals***
- ***Turntable and Roller rings***

☛ **ALWAYS** ensure that the door seals are clean and the door closes properly.

1. Clean the outside surfaces with a soft cloth and warm, soapy water. Rinse and dry.

2. Remove any splashes or stains on the inside surfaces or on the roller ring with a soapy cloth. Rinse and dry.

3. To loosen hardened food particles and remove smells, place a cup of diluted lemon juice on the turntable and heat for ten minutes at maximum power.

4. Wash the dishwasher-safe plate whenever necessary.

✉ **DO NOT** spill water in the vents. **NEVER** use any abrasive products or chemical solvents. Take particular care when cleaning the door seals to ensure that no particles:

- Accumulate
- Prevent the door from closing correctly

Storing and Repairing Your Microwave Oven

A few simple precautions should be taken when storing or having your microwave oven serviced.

The oven must not be used if the door or door seals are damaged:

- ***Broken hinge***
- ***Deteriorated seals***
- ***Distorted or bent oven casing***

Only a qualified microwave service technician should perform repair.

☛ **NEVER** remove the outer casing from the oven. If the oven is faulty and needs servicing or you are in doubt about its condition:

- Unplug it from the wall socket
- Contact the nearest after-sales service centre

✉ If you wish to store your oven away temporarily, choose a dry, dust-free place.

- **Reason:** Dust and damp may adversely affect the working parts in the oven.

✉ This microwave oven is not intended for commercial use.

Technical Specifications

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SAMSUNG strives to improve its products at all times. Both the design specifications and these user instructions are thus subject to change without notice.

Model	**M187CNCE**
Power source	230V ~ 50 Hz
Power consumption Microwave	 1250 W
Output power	100 W / 850 W (IEC-705)
Operating frequency	2450 MHz
Magnetron	OM75P(31)
Cooling method	Cooling fan motor
Dimensions (W x H x D) Outside Oven cavity	 489 x 275 x 391 mm 330 x 211 x 329 mm
Volume	23 liter
Weight Net	 13.5 kg approx

SAMSUNG ELECTRONICS